



This study was to evaluate the structural feasibility of implementing a mass transit system on the Golden Gate Bridge by building a new special purpose deck beneath the existing highway deck. Five alternative transit systems were considered: BART rapid rail; Muni Metro light rail; TGI mark VI monorail; MAN guided bus; and the automated Mini Metro ALRT system. The studies concluded that a two-guideway system can be implemented on a welded steel orthotropic deck, located entirely within the existing structural envelope of the bridge without changes in the aesthetics, safety, or life span of this landmark engineering structure. T.Y. Lin International (TYLI) was the structural consultant.

Key Staff Experience

- Mark A. Ketchum served as Project Manager and Lead Investigator for TYLI and directed a team which involved multiple firms to produce a report on the structural feasibility of implementing a mass transit system on the bridge.

Key Project Issues

- Design and analysis of a suspension bridge.
- Development of criteria for bridge strengthening.
- Design of long span bridge.
- Design of rail transit bridge.

Client & Owner:	Golden Gate Bridge, Highway and Transportation District, San Francisco, CA
Date:	Study completed 1990
Fee:	US\$ 500,000
Note:	This project constitutes Individual Experience of OPAC Principals.